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(21)Application number : **59-001411** (71)Applicant : **JUJO PAPER CO LTD**

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(54) **PREPARATION OF XYLITOL BY IMMOBILIZED MICROORGANISM**

(57)Abstract:

**PURPOSE:** To prepare efficiently xylitol, by immobilizing a microorganism having the ability to produce xylitol in a gelatinous carrier, and subjecting the immobilized carrier to contact reaction with a saccharide liquid.

**CONSTITUTION:** A microorganism, belonging to the genus *Candida*, *Trichosporon*, *Rhodospiridium* or *Saccharomyces*, and having the ability to produce xylitol is immobilized in a gelatinous carrier, e.g. sodium alginate, k-carrageenan or polyacrylamide. The resultant immobilized microorganism is then continuously subjected to contact reaction with a 1W10% xylose solution to produce xylitol. The xylitol yield based on the xylose is about 50%.